

National Marine Sanctuaries  
National Oceanic and Atmospheric Administration



NATIONAL MARINE  
SANCTUARIES

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OLYMPIC COAST



# OCNMS Management Plan Implementation

## FY 2016 Priorities

By: OCNMS staff

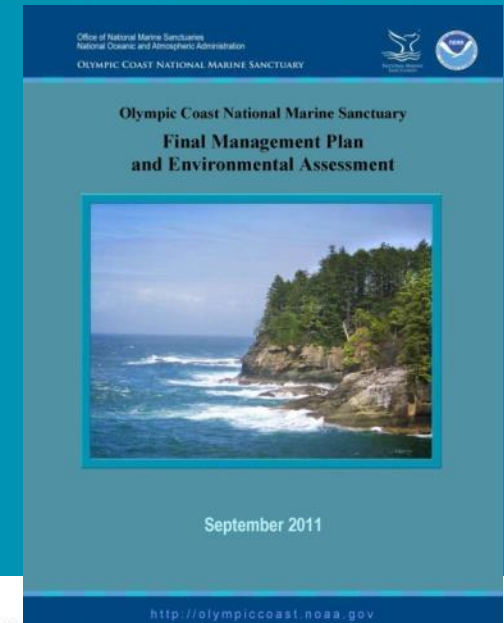
November 6, 2014 AC meeting

# Presentation Outline

- 2011 Management Plan Review
- FY 2015 Implementation Report
  - Highlights
  - Performance Measures
  - Report on strategies
- *FY 2016 Implementation Priorities*

# 2011 Management Plan Structure

- 6 Priority Issues
  - 20 Action Plans
    - 84 Strategies
      - Several hundred potential activities
    - Different funding scenarios
- Time period from 5-10 years
- FY 2016 = year 5



| Implementation Tracking   |   |                                   | Table Legend  |                                     |
|---|---|-----------------------------------|---|-------------------------------------|
| Action Plans/Strategies   | MP Priorities, Lead Funding Source(s), FY13-FY15 Status | Implementation Tracking:          |   | Repeating Tasks for FY13 Activities |
|   |   | H - High<br>M - Medium<br>L - Low | □ - Not related or planned<br>○ - Initiated 1-25%<br>◐ - Initiated 26-50%<br>◑ - Initiated 51-75%<br>■ - Completed  |                                     |
| Status  |   |                                   |   |                                     |
| <b>A1. Collaborative and Coordinated Sanctuary Management Action Plan</b> |   |                                   |   |                                     |
| CCM External Evaluation   | H   | □                                 | No activities identified for FY13   |                                     |
| CCM Coastal Treaty Tribes   | H   | □                                 | No activities identified for FY13   |                                     |
| CCM Olympic Coast Intergovernmental Policy Council                        | H   | ●                                 | The sanctuary supported the IPC by providing input to meeting agendas, providing requested information and briefings on important management issues. A joint meeting between the AC and IPC was held in November 2012. The annual meeting with the CCMs director was planned but postponed at the IPC's request.  |                                     |
| CCM Washington State  | H   | ●                                 | A Memorandum of Agreement (MOA) was finalized in January 2013 among NOAA's Office of National Marine Sanctuaries, through the Olympic Coast National Marine Sanctuary, and the NPS, the NWS, the Cascade Tribe, the Cascade Indian Nation, and the State of Washington. The term of the MOA is for an additional 5 years.   |                                     |
| CCM Department of Interior  | H   | ●                                 | CCM staff met with the Washington State Coastal Caucus and Advisory Council to discuss implementation of the Ocean Action Plan (OAP) and sanctuary management plan, and to identify how CCMs research and conservation efforts can complement OAP implementation efforts. It was agreed that areas of collaboration in 2013 would be focused on CCMs support to the ongoing state efforts related to Marine Spatial Planning, specifically work on (1) habitat mapping priorities, (2) MPA goals and objectives setting, and (3) participating in human use mapping workshops.  |                                     |
| CCM US Coast Guard  | H   | ●                                 | Annual meeting with CCM Superintendent and USCG Project Leader. Participated in Olympic National Park annual interpretive training. Coordinated with CCM and others on Museum dock removal and annual beach cleanup. Technical staff consultation and collaboration in harbor meeting, marine debris, permitting and enforcement. Collaborated with USFWS on a pilot project using a NOAA UAVS (Unmanned Aircraft Vehicle System) to monitor seabird colonies and marine debris. CCMs accepted an offer to be a cooperating agency on the CCM Wilderness Stewardship Plan.  |                                     |
| CCM US Navy   | H   | ●                                 | CCM staff met with the US Navy Northwest Region to discuss Navy and sanctuary activities that took place off the coast of Washington and to identify areas of potential collaboration for 2013. Sanctuary staff provided a briefing on 2012 research activities of interest to US Navy, and US Navy representatives discussed annual activities associated with the Cannon Tied Range and Northwest Training Range. US Navy also gave an update on the schedule for the Northwest Training and Testing (NNTT) Environmental Impact Statement (EIS). The NNTT EIS covers activities within the sanctuary and adjacent areas. CCMs subsequently provided comments on the EIS. |                                     |

# Improve Ocean Literacy

- K-12 Education
- Higher Education
- Visitor Services
- Community Outreach



# Improve Ocean Literacy K-12 Education

- Ocean Science
- N.O.W. Science
- ROV Club
- Summer Youth Camps
- Ecosystem Pen Pals
- Earth Echo Expeditions
- Pacific Northwest B-WET
- Ocean Guardian





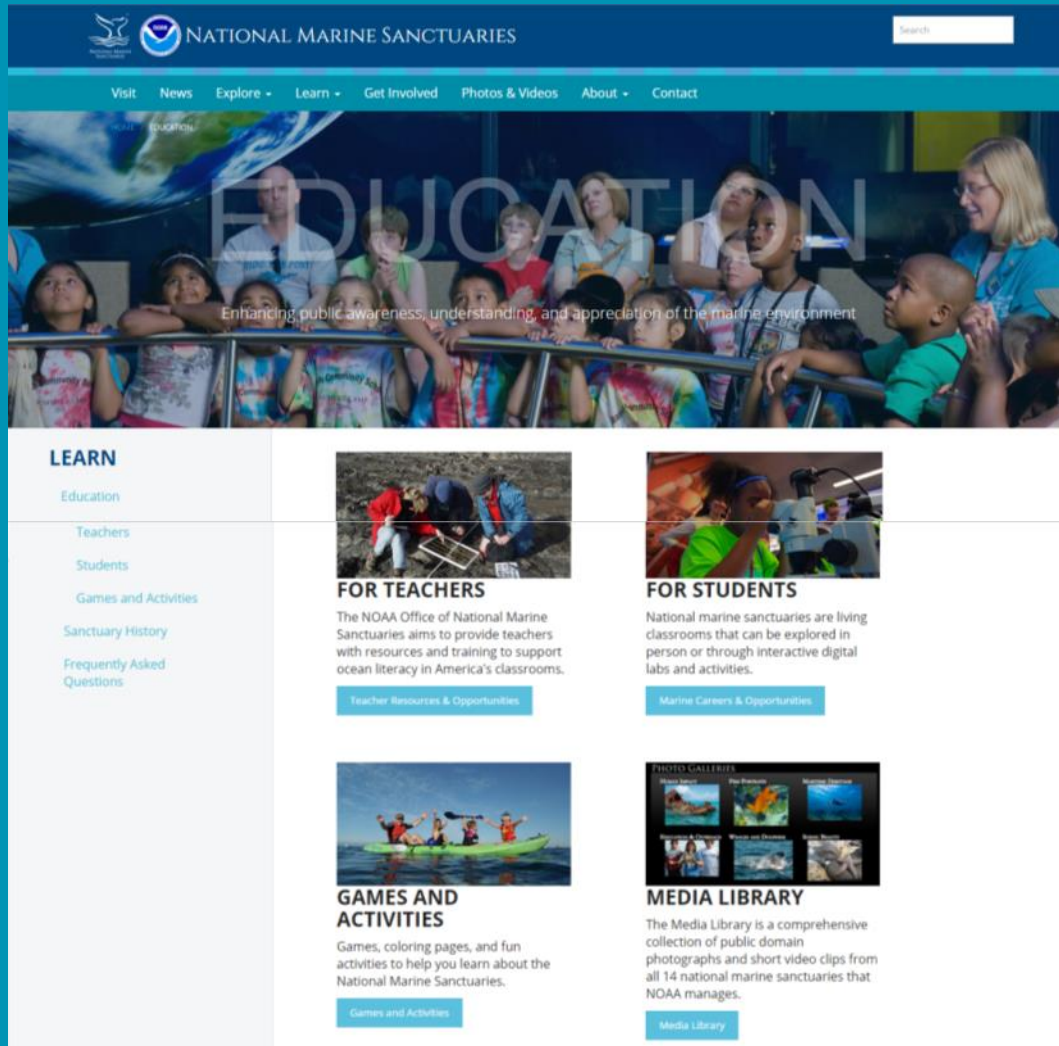
# Improve Ocean Literacy Higher Education



- AmeriCorps
- Interns
- Teacher Workshops
- Opportunities for post-secondary students



# Improve Ocean Literacy Visitor Services



The screenshot shows the National Marine Sanctuaries website. The header includes the logo and navigation links: Visit, News, Explore, Learn, Get Involved, Photos & Videos, About, and Contact. A large banner image shows a group of children and adults looking at a display, with the word 'EDUCATION' overlaid. Below the banner, the 'LEARN' section is highlighted, with sub-links for Education, Teachers, Students, Games and Activities, Sanctuary History, and Frequently Asked Questions. The main content area features four sections: 'FOR TEACHERS' with a photo of children and a description of resources; 'FOR STUDENTS' with a photo of a child and a description of interactive digital labs; 'GAMES AND ACTIVITIES' with a photo of people in a kayak; and 'MEDIA LIBRARY' with a photo of a gallery and a description of the collection. Each section has a corresponding button for more resources.

**NATIONAL MARINE SANCTUARIES**

Visit News Explore Learn Get Involved Photos & Videos About Contact

**EDUCATION**

Enhancing public awareness, understanding, and appreciation of the marine environment

**LEARN**

- Education
- Teachers
- Students
- Games and Activities
- Sanctuary History
- Frequently Asked Questions

**FOR TEACHERS**

The NOAA Office of National Marine Sanctuaries aims to provide teachers with resources and training to support ocean literacy in America's classrooms.

[Teacher Resources & Opportunities](#)

**FOR STUDENTS**

National marine sanctuaries are living classrooms that can be explored in person or through interactive digital labs and activities.

[Marine Careers & Opportunities](#)

**GAMES AND ACTIVITIES**

Games, coloring pages, and fun activities to help you learn about the National Marine Sanctuaries.

[Games and Activities](#)

**MEDIA LIBRARY**

The Media Library is a comprehensive collection of public domain photographs and short video clips from all 14 national marine sanctuaries that NOAA manages.

[Media Library](#)





# Improve Ocean Literacy Community Outreach



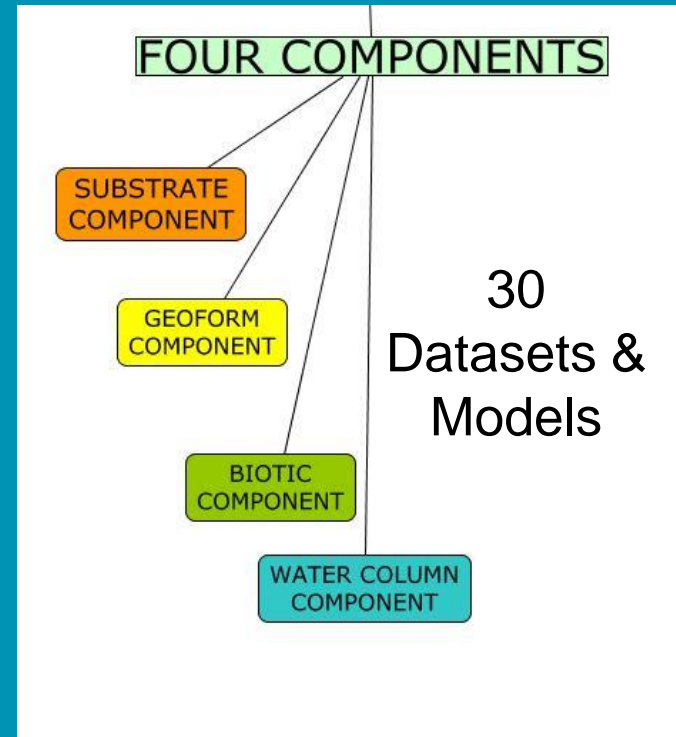
# Achieve Effective Collaborative & Coordinated Management

- Intergovernmental Policy Council
- Washington State
- Advisory Council
- Vessel Infrastructure and Operations
- ✓ MP Implementation Reporting (year 4)

# IPC Habitat Framework Initiative

- 2016: Build CMECS Classification in GIS

- Progress reports for IPC & AC
- Status report and maps by end of December 2016
- Primary Goal: Preliminary look at Biotopes



# Infrastructure & Operations

- Work on a new lease for OCNMS space
- Conduct maintenance to ensure *R/V Tatoosh* remains in working order
- Finalize specifications for vessel replacement and further explore funding options
- Continue field operations including oceanographic moorings and habitat mapping

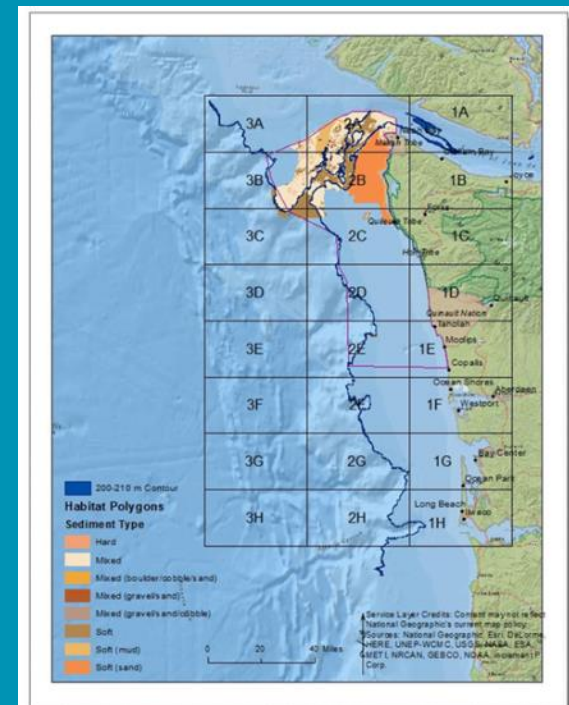
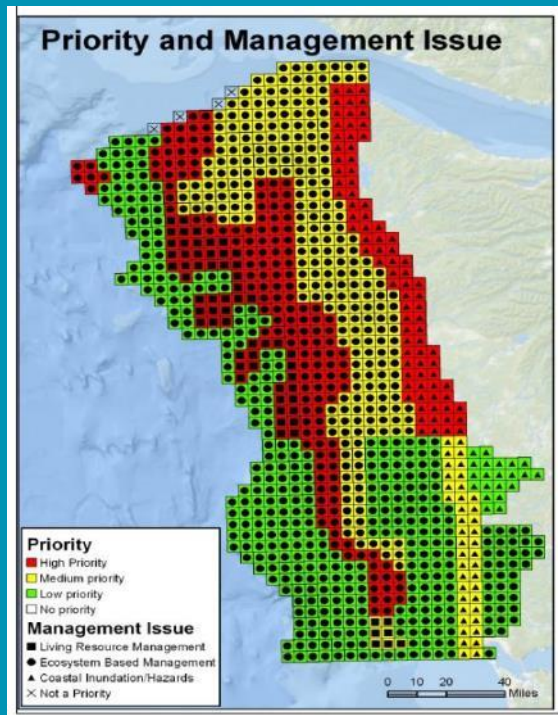


# Conduct Collaborative Research, Assessments and Monitoring

- Habitat Mapping and Classification
- Physical and Chemical Oceanography
- Populations, Communities and  
Ecosystems

# Habitat Mapping and Classification

- Spatial Prioritization

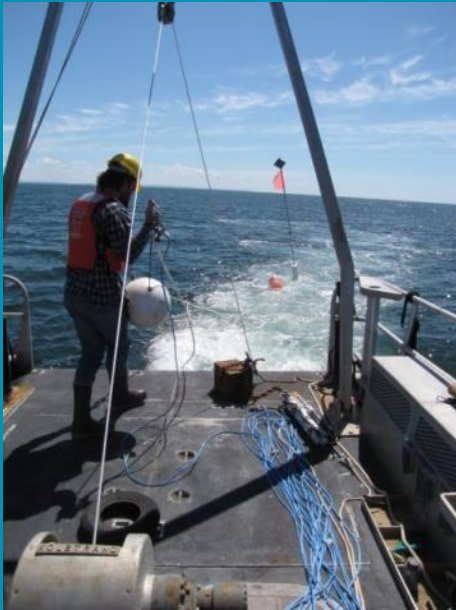


WA Seafloor Atlas

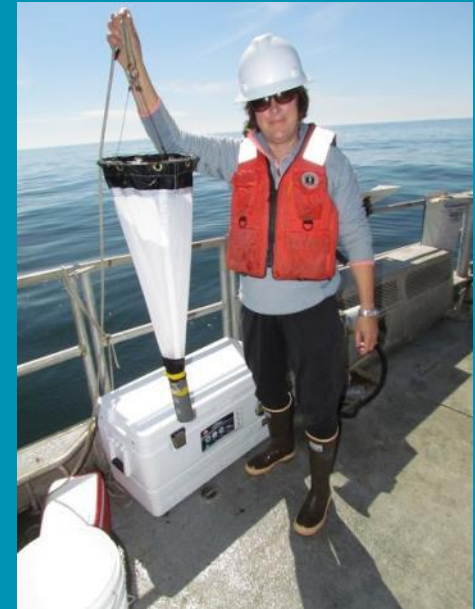
# Physical and Chemical Oceanography

- Coastal Mooring Program
- Hypoxia
- Ocean Acidification

# Coastal Mooring Program



- 16<sup>th</sup> year
- Funding challenges
- Improved data sharing
- Hypoxia monitoring
- Harmful algal bloom sampling





# Ocean Acidification

- OCNMS continues collaborations with PMEL by providing our moorings data for their OA models
- Work with partners to define an Olympic Coast sentinel site program for OA
  - Intent to host a workshop to better define the scope of an OA sentinel site, focusing on current OA science, documenting current and planned response actions and identifying targeted outreach & education efforts

# Populations, Communities & Ecosystems

## Ongoing projects



Intertidal monitoring



Sea otter census



Subtidal surveys

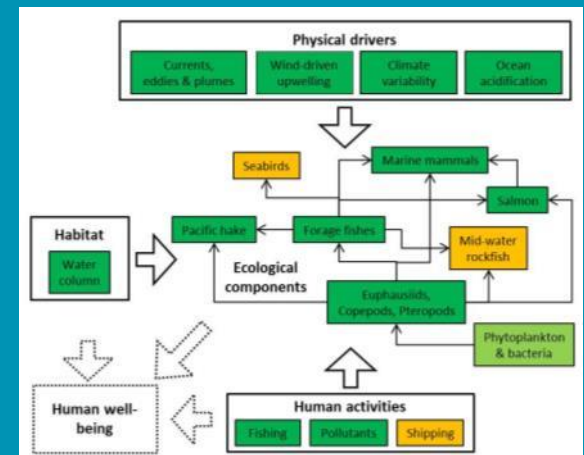
# Populations, Communities & Ecosystems

## Legacy work

- Seafloor habitat recovery

## Desk work

- Science Needs updates
- Indicators refinement



# Populations, Communities & Ecosystems

## New Initiatives



Quinault Canyon  
exploration

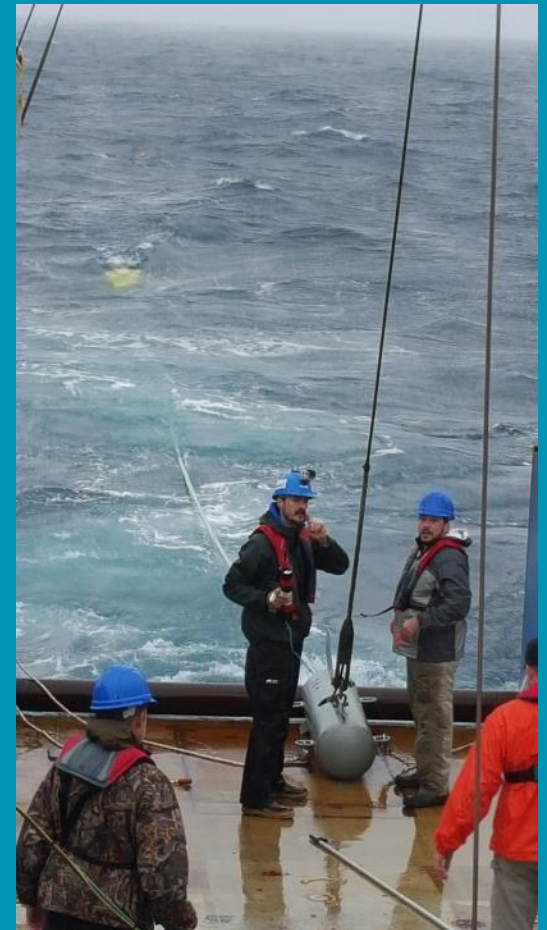


Pelagic seabird surveys



# Conserve Natural Resources

- OCNMS Response Plan
- Climate Change
- Submerged Marine Debris
- Vessel Discharges
- Marine Spatial Planning



# Climate Change

- Continue to pursue Climate Smart Certification as the revised standards are finalized
- Identify existing/planned climate-related work on the Peninsula, then conduct Gap Analysis to determine where the sanctuary can play an active role
- Continue with climate outreach and education

# Cultural, Historical & Socioeconomic

- Maritime Heritage Resource Management Plan
- Socioeconomic Values of Resources in the sanctuary

QUESTIONS - DISCUSSION